

THE MINERALOGICAL SOCIETY OF AMERICA

We have been able to secure reduced railroad fare for the Cambridge, Massachusetts, meeting December 28-29, 1932, by the round trip identification certificate method. This enables members to purchase before starting, round trip tickets for one and one half times the regular one way fare to Boston, not Cambridge. Tickets must be validated at Boston before beginning the return trip. It will be possible to go by one authorized route and return by another.

These identification certificates must be obtained before purchasing a railroad ticket. If you are going to Cambridge, write to the secretary *at once* for a certificate. Fellows of the Geological Society of America will be supplied direct from headquarters.

FRANK R. VAN HORN, *Secretary*,
Case School of Applied Science
Cleveland, Ohio.

THE MINERALOGICAL SOCIETY OF AMERICA

Thirteenth Annual Meeting

ALEXANDER N. WINCHELL, *President*

Cambridge, Massachusetts

December 28-29, 1932

PROGRAM

In Joint Session with the Geological Society of America, Thursday, December 29, 1932, at 12 o'clock, noon.

A. N. WINCHELL, *Presidential Address*: **The New Mineralogy.**

LIST OF PAPERS

To be presented Wednesday, December 28, 1932, after the business session at 2 P.M., and thereafter at the regular sessions on Thursday if not previously completed.

1. R. D. BUTLER AND M. J. BUERGER.—**Immersion Liquids of Intermediate Refraction.**
2. A. F. ROGERS.—**The Symbols of Crystal Optics.**
3. A. F. ROGERS.—**Cleavage and Parting in Quartz.**

4. C. B. SLAWSON.—A New Objective for the Petrographic Microscope.
5. G. TUNELL, E. POSNJAK, AND C. J. KSANDA.—The Atomic Structure and Geometrical Constants of Tenorite.
6. J. D. H. DONNAY AND J. MÉLON.—Haüy-Bravais Lattice and Other Crystallographic Data for Sodium Molybdo-Tellurate.
7. F. R. VAN HORN AND KENT R. VAN HORN.—An X-Ray Study of Pyrite or Marcasite Concretions in the Rocks of the Cleveland, Ohio, Quadrangles.
8. A. C. LANE.—Five Fold Check of Uraninite Age?
9. M. J. BUERGER.—The Pyrite-Marcasite Relation.
10. C. E. TILLEY AND J. F. SCHAIRER.—Some Carnegieite Solid Solutions.
11. W. T. SCHALLER.—Johannsenite, a New Manganese Pyroxene.
12. R. E. LANDON.—Colusite, A New Tin-Bearing Tennantite from Butte, Montana.
13. PHILLIP KRIEGER.—The Occurrence of Strontianite at Sierra Mojada, Mexico.
14. W. A. TARR.—The Origin of the Sand Baritites of the Lower Permian of Oklahoma.
15. J. S. STEVENSON.—Vein-Like Masses of Pyrrhotite in Chalcopyrite from the Waite-Ackerman-Montgomery Mine, Quebec.
16. P. F. KERR.—The Tungsten Deposit at Mill City, Nevada.
17. STEPHEN RICHARZ.—Peculiar Gneisses of a Late Formation in the Cascades, Washington.
18. CHARLES PALACHE AND EDWIN OVER, JR.—The Pegmatites of the Pikes Peak Region, Colorado.
19. A. F. ROGERS.—Use of Plane Angles in Geometrical Crystallography.
20. J. D. H. DONNAY.—The Theory of Determinants Applied in Crystallography.
21. CHARLES PALACHE AND LAURENCE LA FORGE.—Crystallographic Notes.
22. M. A. PEACOCK.—Crystallography of Emplectite.